

answers²

EasyGuide

AMILO A Series

English



FUJITSU COMPUTERS
SIEMENS

Are there ...

... any technical problems or other questions which you would like to be clarified?

Please contact:

- your sales partner
- your sales outlet

Additional information is contained in the "Warranty" manual and the Help Desk list.

The latest information on our products, tips, updates, etc., can be found on the internet under:

<http://www.fujitsu-siemens.com>

Herausgegeben von/Published by
Fujitsu Siemens Computers GmbH

Bestell-Nr./Order No.: **SAP:10600366086**

Bestell-Nr./Order No.: **440 N30115**

Printed in the Federal Republic of Germany
AG 0703 07/03

AMILO A Series

Operating manual

Introduction

Index

Important notes

Preparing the notebook
for use

Working with the
notebook

Security functions

Connecting external
devices

Settings in BIOS Setup

Troubleshooting and tips

Memory expansion

Technical data

July 2003 edition

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This manual was produced by
cognitas. Gesellschaft für Technik-Dokumentation mbH
www.cognitas.de

Contents

Introduction	1
Notational conventions	2
Important notes	3
Safety notes	3
Notes on installing and removing boards and modules	4
Manufacturer's notes	5
Copyright-protected technology	5
Energy saving	5
Disposal and recycling	6
CE marking	6
Storing the battery	6
Transporting the notebook	7
Before you travel	7
Transporting the notebook	7
Cleaning the notebook	8
Preparing the notebook for use	9
Unpacking and checking the delivery	9
Selecting a location	9
Connecting the power adapter	10
Switching on the notebook for the first time	10
Switching on the notebook	11
Switching the notebook off	11
Working with the notebook	13
Views	13
Interior view	13
Front	14
Right side panel	14
Left side panel	14
Back panel	15
Under side	15
Status indicators	16
Keyboard	18
Letter keys	18
Function keys	19
Windows logo keys	19
Virtual numeric keypad	20
Key combinations	21
Easy buttons	23
Touchpad and touchpad buttons	23
Closed cover switch	24
LCD display panel	25
Information on LCD monitor	25
Display settings	25
Battery	26
Charging, caring for and maintaining the battery	26
Monitoring the battery charging level	27
Inserting and removing the battery	27
Performing the battery learning cycle	28
Energy saving functions	29
Hard disk	29

Optical drive	30
Combo drive (CD-RW/DVD)	30
DVD+RW drive	31
Handling CD/DVDs	31
Regional codes for DVD films and DVD players	33
Adjusting AutoPlay function of optical drive	33
Floppy Disk Drive	34
Working with floppy disks	34
PC cards	35
Installing a PC card	35
Removing a PC card	36
Microphone and loudspeakers	36
Adjusting the volume	36
Switching the loudspeakers on/off	36
Integrated 56k modem	37
Connecting notebook modem to telephone connection	37
Ethernet and LAN/DSL ready	38
Security functions	39
Overview of all security functions	39
Kensington Lock	39
BIOS password protection	39
Brief overview of the security functions	40
Using Kensington Lock	40
Configuring password protection in BIOS Setup	41
Protecting BIOS Setup (supervisor and user password)	41
Password protection of operating system	42
Password protection for hard disk	43
Connecting external devices	45
Connecting an external monitor	46
Connecting an external PS/2 mouse or keyboard	46
Using the parallel port	46
Connecting USB devices (up to 12 Mbps)	47
Connecting external audio devices	47
Connecting a television set to S-Video Out	48
Connecting FireWire devices	48
Settings in BIOS Setup	49
Start BIOS Setup	49
Operating BIOS Setup	50
Exiting BIOS Setup	50

Troubleshooting and tips	51
Restoring operating system	51
The notebook's date or time is incorrect	51
The LCD screen of the notebook remains blank	52
The LCD screen is difficult to read	52
The external monitor stays blank	52
The external monitor is blank or the image is unstable (under Windows)	53
The notebook cannot be started	53
The notebook stops working	54
The mouse does not work	54
The floppy disk cannot be written	54
The printer does not print	55
The DVD film does not continue to play	55
Acoustic warnings	55
System configuration contains invalid data	55
Error messages on the screen	56
Memory expansion	59
Installing/removing memory	59
Technical data	61
Notebook	61
Battery	62
Power adapter	62
Index	63

Introduction

Innovative technology and ergonomic design make your AMILO the ideal user-friendly and reliable notebook. Your operating system is preinstalled on the hard disk and optimally configured to facilitate the procedure when you use your AMILO for the first time.

Depending on the initial configuration, the main memory of your notebook can be upgraded to 128 - 1024 Mbyte with a 128, 256 or 512 Mbyte memory module. Depending on the variant, your notebook is shipped with a DVD+RW drive or a combo drive (CD-RW/DVD). As an option your notebook can also be equipped with a 3 1/2-inch floppy disc drive. Up to two PC card slots (CardBus or PCMCIA) enable the notebook to operate a type II or type III PC card. Your notebook is equipped with an internal modem and LAN. In addition, your notebook is equipped with a S Video out socket to connect to a television. You can connect external devices such as digital audio/video devices or other high-speed devices to IEEE1394 (FireWire).

For mouse control, the notebook has a touchpad.

Your notebook has connectors for external devices such as an external monitor, a printer, and a mouse. The ECP capable parallel port is designed for fast bi-directional data transfer. You can connect peripheral devices such as a scanner, loudspeakers, gamepads, keyboard, or mouse via the three USB ports.

An audio controller and two internal loudspeakers provide your AMILO with an audio capability. You can also connect an external microphone and an external loudspeaker.

The system settings of the notebook can be configured via the user-friendly *BIOS Setup* programme.

This operating manual tells you how to put your AMILO into operation, and how to operate it in daily use.

Further information on this notebook is provided:

- in the "Getting Started" manual
- in the "Safety and Ergonomics" manual
- in the "Warranty" manual
- in the information files (e.g. *.TXT, *.DOC, *.WRI, *.HLP, *.PDF)
- in the documentation of the operating system

Notational conventions

The following symbols are used in this manual:



Indicates information which is important for your health or for preventing physical damage. Failure to follow the instructions may lead to loss of data, invalidate your warranty, destroy the notebook, or endanger your life.



Indicates important information which is required to use the system properly.



Text which follows this symbol describes activities that must be performed in the order shown.

This font

indicates screen outputs.

This font

indicates programme names, commands or menu items.

"Quotation marks"

indicate names of chapters, data carriers, and terms that are being emphasised.

Important notes

Here you will find essential safety information regarding your notebook. In addition, the manufacturer's notes contain helpful information about your notebook.

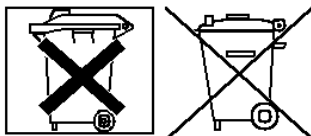
Safety notes



Pay attention to the information provided in the "Safety and Ergonomics" manual and in the following safety notes.

Observe the sections in the manual marked with the symbol on the left.

- During installation and before operating the device, please observe the instructions on environmental conditions in the "Technical data" chapter as well as the instructions in the "Preparing the notebook for use" chapter.
- When connecting and disconnecting cables, observe the relevant notes in this operating manual.
- When cleaning the device, please observe the relevant notes in the "Cleaning the notebook" paragraph.
- Only use batteries designed for this notebook.
Do not store batteries for longer periods in the notebook.
Take care not to drop the batteries or otherwise damage their casing (fire risk).
If the rechargeable batteries are defective, they must not be used.
Do not touch the contacts of the batteries.
Never interconnect the positive and negative terminals of a battery.
Used batteries must be disposed of in accordance with local regulations (special waste).
- The notebook includes a lithium battery (button cell) for real-time buffering. Please note that:
The lithium battery may be replaced only by authorised personnel. Incorrect handling may lead to a risk of explosion.
The lithium battery may be replaced only with an identical battery or with a type recommended by the manufacturer.
The lithium battery must be disposed of in accordance with local regulations concerning special waste.
- All batteries containing pollutants are marked with one of the two symbols below (crossed-out garbage can).



Important notes

In addition, the marking is provided with the chemical symbol of the heavy metal decisive for the classification as a pollutant.

Cd	Cadmium
Hg	Mercury
Pb	Lead

- Your notebook is equipped with security functions that offer you a high level of security according to a multi-level concept. Detailed information can be found in "Security functions" chapter.

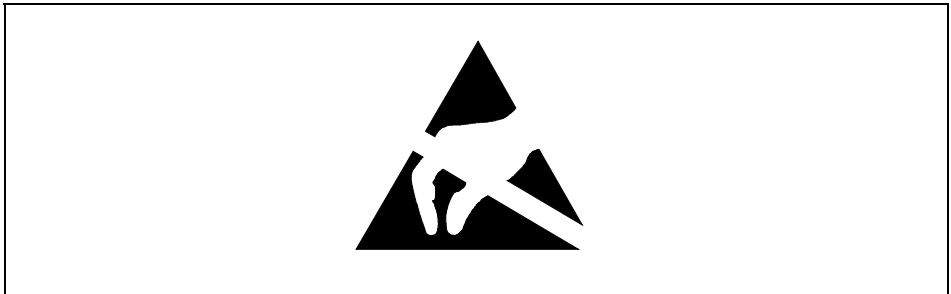
This notebook complies with the relevant safety regulations for data processing equipment. If you have questions as to whether you can set up the notebook in the intended environment, please contact your sales point or our hotline/help desk.

Notes on installing and removing boards and modules



Only qualified technicians should repair the device. Unauthorised opening or incorrect repair may greatly endanger the user (electric shock, fire risk).

Boards with electrostatic sensitive devices (ESD) are identifiable by the label shown.



When you handle boards fitted with ESDs, you must, under all circumstances, observe the following points:

- You must statically discharge yourself before working with boards (e.g. by touching a grounded object).
- The equipment and tools you use must be free of static charges.
- Remove the power plug from the mains supply before inserting or removing boards containing ESDs.
- Always hold boards with ESDs by their edges.
- Never touch pins or conductors on boards fitted with ESDs.

Manufacturer's notes

Copyright-protected technology

This product incorporates copyright protection technology that is protected by method claims of certain U. S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Energy saving

If you will not be using your notebook, switch it off.

Make use of the device's energy saving functions (see section "Working with the notebook"). The notebook uses less power when the power management features are enabled. You will then be able to work for longer before having to recharge the battery.

Energy saving under Windows

If a monitor with energy saving features is connected to your notebook, you can use the *Screen Saver* tab to activate the energy saving features of the monitor. Select the following item in the start menu: *Settings - Control Panel - Display - Display Properties - Screen Saver - Energy saving functions for the display*. You can set additional energy saving functions in the start menu by selecting the following item: *Settings - Control Panel - Energy - Extended*.

Energy Star



The notebook from Fujitsu Siemens Computers is designed to conserve electricity by dropping to less than 8 W when it goes into standby/suspend mode and to less than 3 W when it goes into OFF mode. With this level of power management, the notebook qualifies for the U.S. Environmental Protection Agency's (EPA) Energy Star Computers award.

The EPA estimates that computer equipment uses 5 percent of all business electricity and that this is growing rapidly. If all desktop PCs and peripherals enter a low-power mode when not in use, the overall savings in electricity could amount to \$ 2 milliard annually. These savings could also prevent the emission of 20 million tons of carbon dioxide into the atmosphere - the equivalent of 5 million automobiles.

As an Energy Star Partner, Fujitsu Siemens Computers GmbH has determined that this product meets the Energy Star guidelines for energy efficiency.

Disposal and recycling

This device has been manufactured to the highest possible degree from materials which can be recycled or disposed of in a manner that is not environmentally damaging. The device may be taken back after use to be recycled, provided that it is returned in a condition that is the result of normal use. Any components not reclaimed will be disposed of in an environmentally acceptable manner.

Do not throw batteries or accumulators into the household waste.

If you have any questions on disposal, please contact your local office, our hotline/help desk, or:

Fujitsu Siemens Computers GmbH
Recyclingcenter
D-33106 Paderborn

Tel: +49 5251 81 80 10

Fax: +49 5251 81 80 15

CE marking



The shipped version of this device complies with the requirements of the EEC directives 89/336/EEC "Electromagnetic compatibility" and 73/23/EEC "Low voltage directive".

Storing the battery

Store the battery in a fully charged state. Keep the battery pack between 0°C and +30°C (32 and 122 degrees Fahrenheit). The lower the temperature at which the batteries are stored, the lower is the rate of self-discharge.

If storing for a long period of time (longer than two months) batteries should be fully charged before storage.

To be able to make use of the optimal charging capacity of the batteries, the battery should be completely discharged and then fully recharged.



If you do not use the batteries for long periods, remove them from the notebook. Never store the batteries in the unit.

Transporting the notebook

Please observe the points listed below when transporting your notebook.

Before you travel

- Back up important data stored on your hard disk.
- If you wish to use your notebook during a flight, first check with the flight attendants if it is permissible to do so.
- If you are travelling abroad, ensure that the power adapter can be operated with the local mains voltage. If this is not the case, obtain the appropriate power adapter for your notebook. Do not use any other voltage converter!



If you travel in another country, check whether the local power supply and the specifications of the power cable are compatible. If this is not the case, buy a power cable that matches the local conditions. Do not use a connection adapter for electrical devices to connect the notebook.

If you use a modem, incompatibilities with the local telecommunications system may result.

Transporting the notebook

- Remove all data carriers (e.g. CD) from the drives.
- Unplug the power adapter and all external devices from the mains outlet.
- Disconnect the power adapter cable and the data cables for all external devices.
- Close the LCD screen so that it locks into place.
- If the device needs to be shipped, use the original packaging or other suitable packaging to protect it from damage caused by mishandling.
- To protect against damaging jolts and bumps, use a notebook carrying case to transport your notebook.
Fujitsu Siemens Computers offers a number of solutions for transporting your notebook. The current offering can be viewed on the Internet at <http://www.e-shop2.de>.
- Protect the notebook from severe shocks and extreme temperatures (e.g. direct sunlight in a car).

Cleaning the notebook

- ▶ Switch the notebook off.
- ▶ Pull the power plug of the network adapter out of the mains outlet.
- ▶ Remove the battery.



Do not clean any interior parts yourself; leave this job to a service technician.

Do not use any cleaning agents that contain abrasives or may corrode plastic. The use of improper cleaning agents can damage the markings on the keyboard and the notebook, the paintwork of the device or the device itself.

Ensure that no liquid enters the notebook.

Wipe the casing with a dry cloth.

If particularly dirty, use a cloth that has been moistened in mild domestic detergent and then carefully wrung out.

To clean the touchpad, you can use disinfectant wipes.

Wipe the LCD screen with a soft, moistened cloth.

Preparing the notebook for use



Please take note of the information in the "Important notes" chapter.

You must charge the battery and install the application programmes before you can work with the notebook. The operating system and drivers required are preinstalled.

When not plugged into a mains outlet, the notebook runs on its built-in battery. You can increase the battery's life by enabling the system's energy saving functions.

If you use the notebook in a normal office situation, run it from the mains using the power adapter.

Please see the "Connecting external devices" chapter for instructions on how to connect devices such as a mouse and a printer to the notebook.

Unpacking and checking the delivery

- ▶ Unpack all the individual parts.
- ▶ Check the delivery for damage incurred during transportation.



Do not discard the original packing material of the devices. Keep the original packing material in case you need to ship the equipment again.

Selecting a location

Select a suitable location for the notebook before setting it up. Consider the following points when looking for a location:

- Do not place it on a soft surface (e.g., a carpet or soft furnishings). The space between the notebook's feet must be clear.
Place the notebook on a stable, flat, nonslippery surface. In view of the multitude of different finishes used on furniture, it is possible that the rubber feet of the notebook will mark the surface they stand on.
- Never place the notebook and the power adapter on a heat-sensitive surface.
- The notebook and the power adapter should be at least 200 mm apart.
- Keep other objects 100 mm away from the notebook and its power adapter to ensure adequate ventilation.
- Never cover the fan intake or exhaust openings of the notebook or the power adapter.
- Do not expose the notebook to extreme environmental conditions.
Protect the notebook from dust, humidity, and heat.

Connecting the power adapter



Please take note of the information in the section "Selecting a location".

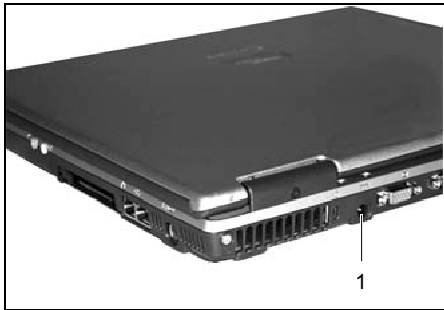
The power cable supplied conforms to the requirements of the country in which you purchased your notebook. Make sure that the power cable is approved for use in the country in which you intend to use it.

The power adapter's AC cord should only be connected to a mains outlet if the notebook is connected to the power adapter. (electric shock!)

Upon delivery, the battery can be found in the battery compartment.

Do not use the power adapter for other notebooks or devices.

Do not use a power adapter that is not specially intended for this notebook.



- ▶ Connect the power adapter cable to the DC jack (DC IN) of the notebook (1).
- ▶ Connect the power cable into the power adapter.
- ▶ Plug the power cable into the mains supply.

The battery will charge. The battery indicator flashes green.



The meaning of the various displays can be found in the section "Status indicators" in the "Working with the notebook" chapter.

Switching on the notebook for the first time



When you switch on your notebook for the first time, the supplied software is installed and configured. Due to the fact that this installation must not be interrupted, you should set aside enough time for it to be fully completed and connect the notebook to the mains outlet using the power adapter.

During installation, the notebook may only be rebooted when you are requested to do so!

- ▶ Switch the notebook on.
- ▶ During installation, follow the instructions on screen.

Consult the operating system manual if there is anything unclear about the requested input data.

Switching on the notebook



- Slide the release button (1) to the right and open the LCD panel (2).



- Press the ON/OFF switch.
The power-on indicator lights up.



After switch-on a self-test (POST, Power On Self Test) is automatically carried out. Never switch the notebook off during the self-test.



If you have assigned a password, you must enter this when requested to do so, in order to start the operating system password. Detailed information can be found in "Security functions" chapter.

Switching the notebook off

- Shut down the operating system properly (with the *Exit* function in the *Start* menu).



With Windows XP the notebook switches off automatically. If the notebook does not switch off automatically, press the ON/OFF switch for approx. four seconds.

- Close the LCD screen so that it locks into place.

Working with the notebook

This chapter describes the basics for operating your notebook.

Please see the "Connecting external devices" chapter for instructions on how to connect devices such as a mouse and a printer to the notebook.

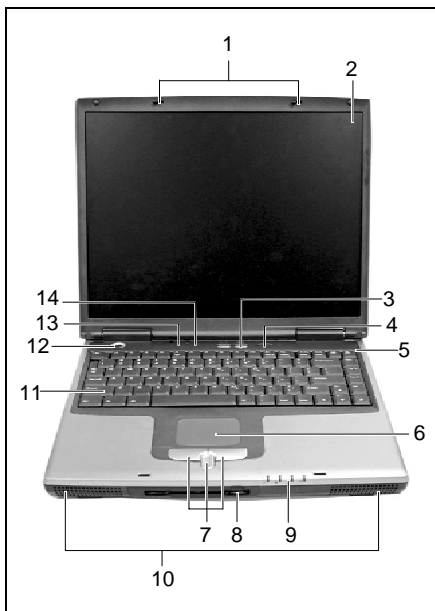


Please take note of the information in the "Important notes" chapter.

Views

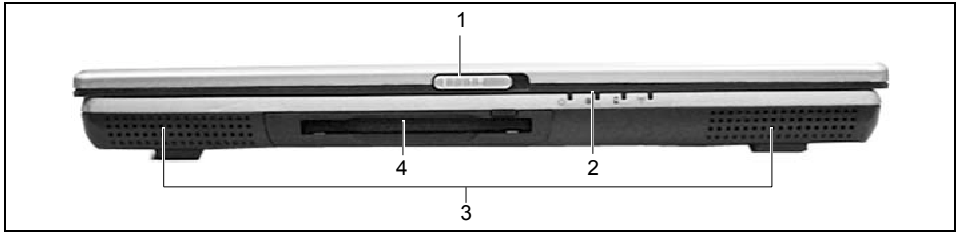
In this section the various hardware components of your notebook are introduced. You can open an overview of the displays and connections of the notebook. Please familiarise yourself with these components before you start to work with your notebook.

Interior view



- 1 = LCD display panel releases
- 2 = LCD display panel
- 3 = Easy buttons
- 4 = On/Off switch for Wireless LAN (optional)
- 5 = Microphone
- 6 = Touchpad
- 7 = Touchpad keys with touchpad scroll key
- 8 = Floppy disc drive (optional)
- 9 = Status indicators
- 10 = Loudspeakers
- 11 = Keyboard
- 12 = ON/OFF switch
- 13 = Closed cover switch
- 14 = Status indicators

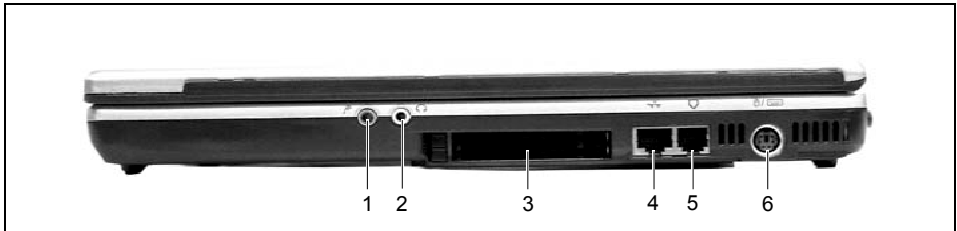
Front



- 1 = Screen lock
2 = Status indicators

- 3 = Loudspeakers
4 = Floppy disc drive (optional)

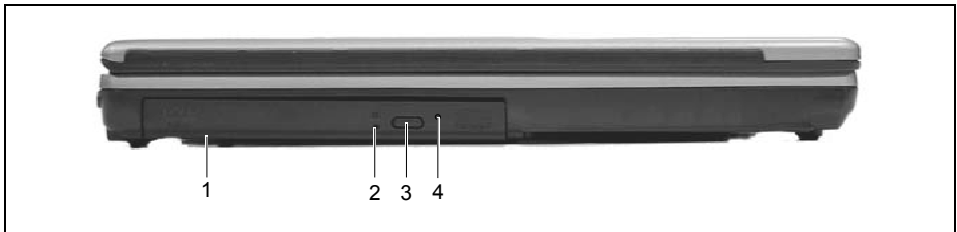
Right side panel



- 1 = Microphone jack
2 = Headphones port
3 = PC card slot

- 4 = Modem port
5 = LAN connector
6 = PS/2 port for keyboard and mouse

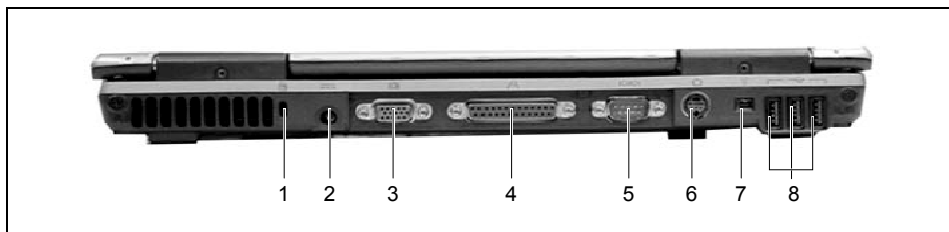
Left side panel



- 1 = Optical drive
2 = Status indicators

- 3 = Insert/eject button of optical drive
4 = Opening for manual ejection

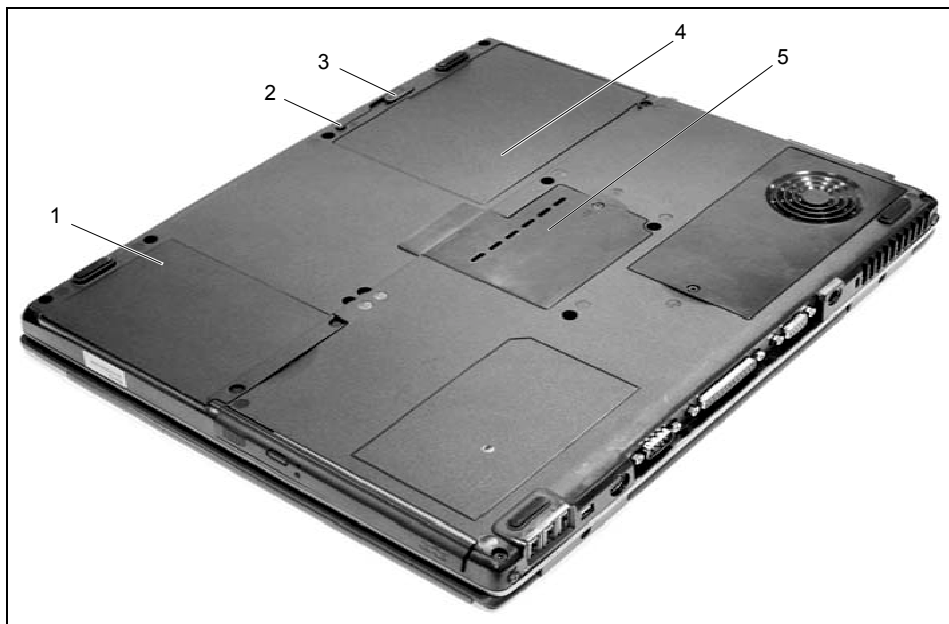
Back panel



- 1 = Kensington Lock
- 2 = DC jack (DC IN)
- 3 = Monitor port
- 4 = Parallel port
- 5 = Serial port

- 6 = S Video out socket
- 7 = FireWire port
- 8 = USB ports

Under side







- 1 = Hard disk
- 2 = Lock for battery lock
- 3 = Battery lock

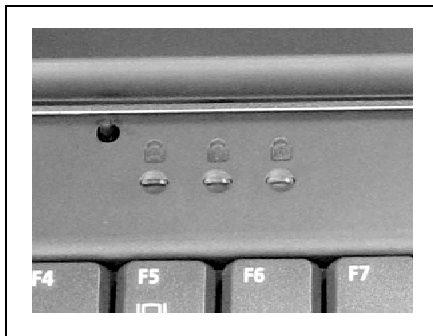
- 4 = Battery
- 5 = Memory cover




Status indicators

The status indicators provide information about the status of the power supply, the drives and the keyboard functions.



-  Power-on indicator
-  Battery indicator
-  Hard disk indicator
-  Floppy disk indicator



-  Caps Lock indicator
-  Num Lock indicator
-  Scroll indicator (Scroll Lock)

The meanings of the symbols are as follows:



Power-on indicator

- The indicator is green: The notebook is on.
- The indicator lights orange: The notebook is in energy-saving mode.
- The indicator is dark: The notebook is switched off.



Battery indicator

- The indicator is green: The battery is fully charged, and the power adapter is connected.
- The indicator flashes green ((1 second on; 3 seconds off): battery is being charged.
- The indicator is orange: the battery capacity is very low. The remaining operating time is approx. 5 - 10 % of the battery capacity.
- The indicator flashes orange: The battery is nearly empty. The remaining operating time is a maximum of 4 % of the battery capacity.
- The indicator is red: The battery is defective or temperature is extremely high/low.
- The indicator does not light up: the notebook runs on its built-in battery or the notebook is switched off.



Hard disk indicator

The indicator flashes green when the hard disk is accessed.



Floppy disk indicator

The indicator flashes green, when a floppy disk in the floppy disk drive is being accessed. When the floppy disk drive is being accessed, do not remove the floppy disk from the drive.



Caps Lock indicator

The **[U]** key has been pressed. All the characters you type appear in uppercase. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed.



Num Lock indicator

The **[Num]** key has been pressed. The numeric keypad is activated. You can output the characters located at the upper right on the keys.



Scroll indicator (Scroll Lock)

The key combination **[Fn] + [Scr]** has been pressed. The effect this key has varies from programme to programme.

Keyboard

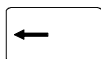


The keyboard of your notebook is subject to continuous wear due to normal use. The keyboard markings are subjected to particularly high loads. The keyboard markings can wear off in the course of using the notebook.

The keyboard has been designed to provide all the functions of an enhanced keyboard. Some enhanced keyboard functions are mapped with key combinations.

The following description of keys and key combinations refers to Windows.

Letter keys



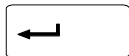
Backspace key

The Backspace key deletes the character to the left of the cursor.



Tab key

The Tab key moves the cursor to the next tab stop.



Enter key (return)

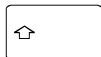
The enter key terminates a command line. The command you have entered is executed when you press this key.



Caps Lock key

The Caps Lock key activates uppercase mode (Caps Lock indicator lit). The Caps Lock function causes all the characters you type to appear in uppercase. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed.

To cancel the Caps Lock function, simply press the Caps Lock key again.



Shift key

The Shift key causes uppercase characters to appear. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed.



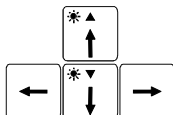
Alt Gr key

The **[Alt Gr]** key allows one to type the characters printed on the lower right of the keycaps (e.g. { in the case of the **[7]** key on the German keyboard).



Fn key

The **[Fn]** key activates the special functions at the lower edge of a on overlay key (see "Key combinations").



Cursor keys

The cursor keys move the cursor in the direction of the arrow, i.e. up, down, left, or right.

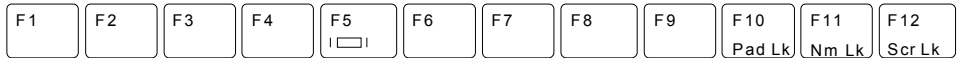


Pause key

The **[Pause]** key temporarily suspends display output. Output will resume when you press any other key.

Function keys

Function keys (do not mix up with **Fn** key) are the 12 keys on the top of keyboard.



The keys **F1** to **F12** are called function keys, because it is possible to execute programmed functions. The function keys with additional symbols enable other functions in conjunction with key **Fn**.

Windows logo keys

With Windows this both keys enable special functions (see also the "Key combinations" section).



Start key (on Windows systems)

The Start key invokes the Windows Start menu.



Menu key (on Windows systems)

The Menu key invokes the menu for the marked item.

Virtual numeric keypad

The keyboard of your notebook does not have a Num Lock key. To provide the convenience of a numeric keypad, your keyboard is equipped with a virtual numeric keypad. The special keys of the virtual numeric keypad are recognisable by the numbers and symbols printed in the upper right corner of each key (see the illustrations that follow).

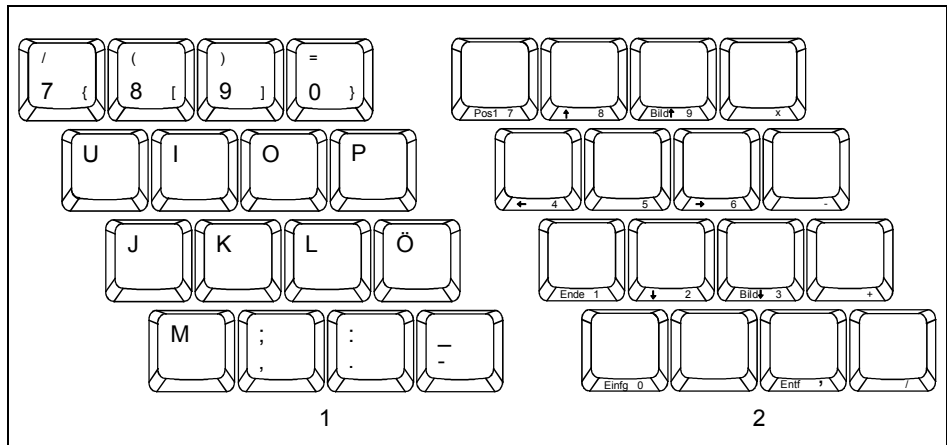


Illustration (example of German keyboard layout)

1 = Characters enabled when Num Lock indicator is not lit (see "Status indicators").

2 = Characters enabled when Num Lock indicator is lit (see "Status indicators").

When the virtual number block is switched on (the Num Lock indicator lights up), you can output the characters located at the upper right on the keys.

Key combinations

The following description of key combinations refers to functions when using Microsoft Windows. Some of the following key combinations may not function in other operating systems and with some device drivers.

The figure below shows how to access the different characters on keys with overlaid functions.

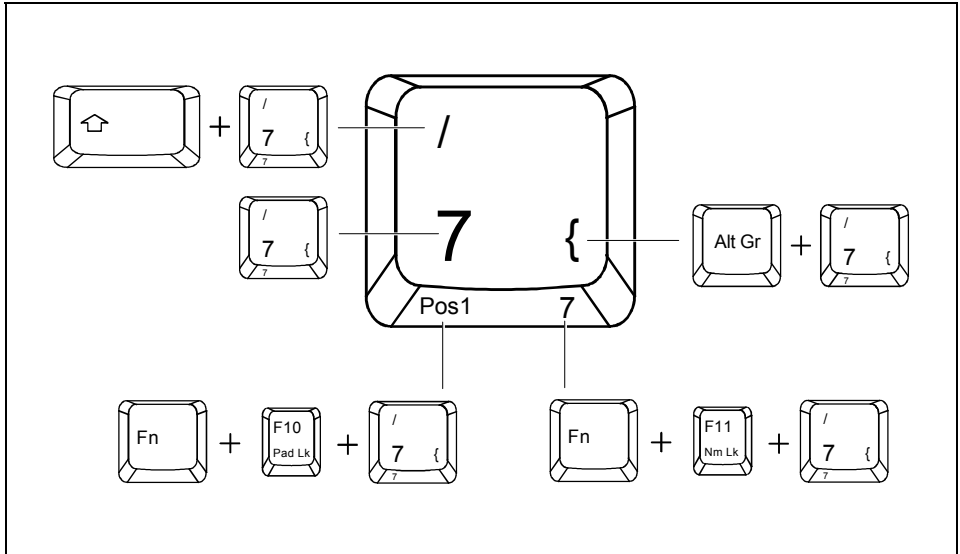
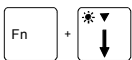


Illustration (example of German keyboard layout)

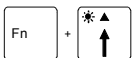
Key combinations are performed as follows:

- ▶ Press and hold the first key in the combination.
- ▶ While holding the first key down, press the other key or keys in the combination.



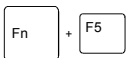
Decreasing screen brightness

This key combination decreases screen brightness.



Increasing screen brightness

This key combination increases screen brightness.



Switching between internal and external screen

If an external monitor is connected, the monitor on which the output is to be displayed can be selected with this key combination.

You can opt to use:

- just the notebook's LCD screen
- just the external monitor
- both the LCD screen and the external monitor.



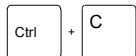
Switching on PadLK

When the numeric keypad is switched on, the key combination activates the number function of the numeric keypad. The characters on the lower right on keys in the integrated numeric keypad are enabled.



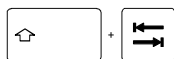
Switching on NumLK

This key combination activates the numeric keypad. The characters on the lower left on keys in the integrated numeric keypad are enabled.



Halting the current operation

This key combination can be used to halt an operation instantly without clearing the keyboard buffer.



Backtab (Shift+Tab)

This key combination moves the cursor back to the previous tabular stop.

Windows key combinations



Opening Windows Explorer

This key combination opens Windows Explorer.



Opening "Run" dialog box

This key combination opens the *Run* dialog box.



Opening "Find for: All files" dialog box

This key combination opens the *Find: All files* dialog box.



Opening "Find: Computer" dialog box

This key combination opens the *Find: Computer* dialog box.

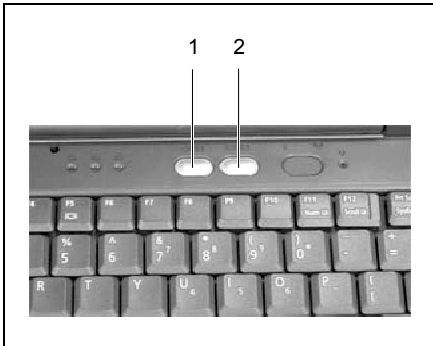


Opening "System Properties" dialog box

This key combination opens the *System Properties* dialog box.

Easy buttons

Your notebook is equipped with two easy buttons.



- 1 = Internet:
With this key you can start the standard internet browser for your system.
- 2 = E-Mail:
Use this key to start the standard e-mail programme for your system.

Touchpad and touchpad buttons

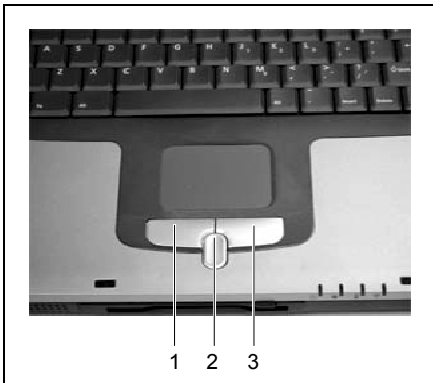


Keep the touchpad clean, protect it from dirt, liquids, and grease.

Do not use the touchpad if your fingers are dirty.

Do not rest heavy objects (e.g. books) on the touchpad or the touchpad buttons.

The touchpad enables you to move the mouse pointer on the screen. The touchpad buttons allow the selection and execution of commands. They correspond to the buttons on a conventional mouse.



- 1 = Left touchpad button
- 2 = Touchpad scroll button
- 3 = Right touchpad button

Moving the pointer

- Move your finger on the touchpad.

The pointer will move accordingly.

Selecting an item

- Move the pointer to the item you wish to select.
- Tap the touchpad once or press the left button once.

The item will be selected.

Executing a command

- Move the pointer to the field you wish to select.
- Tap the touchpad twice or press the left button twice.

The command will be executed.

Dragging an object

- Move the pointer to the item you wish to select.
- Select the desired object and hold down on the left button.
- Drag the object to the desired position.
- Lift your finger from the touchpad.

The item will be moved.

Scrolling up

- Press the upper side of the touchpad scroll button to scroll up.

The information/texts above the display area appear.

Scrolling down

- Press the lower side of the touchpad scroll button to scroll down.

The information/texts below the display area appear.

Closed cover switch

The lid switch is a contact switch that causes the notebook to switch into the Standby mode when the LCD screen is folded closed. You can set the lid switch under Windows XP.

- Select the *Advanced* tab under *Start - Settings - Control Panel - Energy Options* to set the closed cover switch.

LCD display panel

Information on LCD monitor

High-quality TFT monitors are installed in notebooks from Fujitsu Siemens Computers GmbH. The specification of the monitor resolution indicates how many pixels can be displayed. For example, "XGA" stands for 1024 x 768 pixels. Each pixel consists of three so-called subpixels of the colours red, green and blue. As a result, an XGA monitor consists of $1024 \times 768 \times 3 = 2,359,296$ subpixels.

The standard of production techniques today cannot guarantee an absolutely fault-free monitor. A few isolated constant lit or unlit pixels may be present. To ensure the highest possible quality, Fujitsu Siemens Computers uses only monitors that at least comply with the standard DIN ISO 13406-2 (Class III).

TFT monitors are operated with background lighting. The luminosity of the background lighting can decrease during the period of use of the notebook. The brightness of your monitor can be set individually with the brightness control keys of the keyboard.

Display settings

Setting resolution under Windows

You can change the screen resolution under *Start - Settings - Control Panel - Display - Settings* and then selecting from the *Resolution* field.

Setting font size under Windows

Under *Start - Settings - Control Panel - Display - Settings* you can choose between a larger and a smaller font in the *Font size* field.

Setting the display brightness

You can adjust the brightness of your LCD display with the keys **[Fn]** and **[▼]** or **[Fn]** and **[▲]** :

You can reduce screen brightness with **[Fn]** and **[▼]** , with **[Fn]** and **[▲]** screen brightness will be increased.

Synchronising the display on the LCD screen and an external monitor

Your notebook supports the simultaneous display on the LCD screen and an external monitor. If the picture does not appear correctly on the LCD monitor, press the key combination **[Fn]** + **[F5]** several times, or switch the external monitor off and then on again. This achieves good picture synchronisation.

Adjusting pointer speed

Under Windows you can change the speed of the mouse pointer under *Start - Settings - Control Panel - Mouse* and clicking on the *Motion* tab.

Battery

The battery is one of the most important components of your notebook. When not plugged into a mains outlet, the notebook runs on its built-in battery. You can increase battery life by enabling the system's power management features.

When you switch on the notebook, it takes a few seconds before the battery status is displayed.

The standard battery will last for roughly 500 charge/discharge cycles, this will vary according to which battery pack is fitted.

Charging, caring for and maintaining the battery



Only use batteries released for your notebook.

Take care not to drop the batteries or otherwise damage their casing (fire risk).

If the rechargeable batteries are defective, they must not be used.

Do not touch the contacts of the batteries.

Never interconnect the positive and negative terminals of a battery.

Used batteries must be disposed of in accordance with local regulations (special waste).

Observe the information on battery storage in the "Important notes" chapter.

You can charge the battery by connecting the notebook to the power adapter.

The battery can only be charged when the ambient temperature is between 5°C and max. 40°C.

Work in the battery mode until an acoustic warning prompts you to recharge and the battery indicator in the status indicator panel begins to flash. The battery should not be charged before this point.

If you do not connect the power adapter within five minutes of the signals described above, your notebook will automatically switch to the energy-saving mode or off (see also the "Energy saving functions" section).

Storing the battery

Store the battery in a fully charged state. Keep the battery pack between 0°C and +30°C (32 and 122 degrees Fahrenheit). The lower the temperature at which the batteries are stored, the lower is the rate of self-discharge.

If storing for a long period of time (longer than two months) batteries should be fully charged before storage.

To be able to make use of the optimal charging capacity of the batteries, the battery should be completely discharged and then fully recharged.



If you do not use the batteries for long periods, remove them from the notebook. Never store the batteries in the unit.

Monitoring the battery charging level

Power management includes a "battery charge meter" located in the task bar. When you place the mouse pointer on the battery symbol, the system displays the battery status.

Inserting and removing the battery



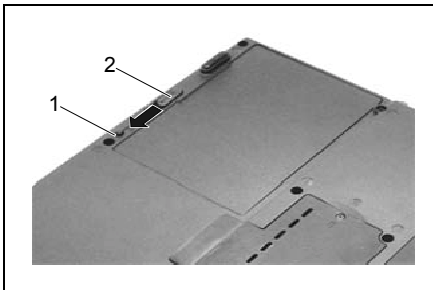
Only use batteries released for this notebook.

Never use force when inserting or removing a battery.

Make sure that foreign objects do not fall into the battery compartment.

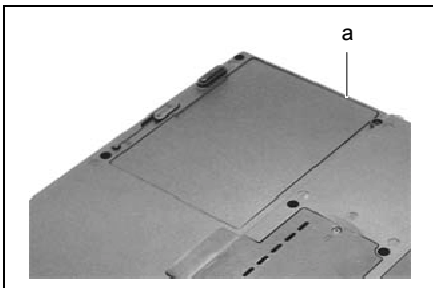
- ▶ Switch the notebook off.
- ▶ Close the LCD screen so that it locks into place.
- ▶ Unplug the power adapter from the mains outlet.
- ▶ Disconnect all cables connected to the notebook.
- ▶ Place the notebook on a flat surface.
- ▶ Turn the notebook over.
- ▶ Place the notebook on a flat surface.

Removing the battery



- ▶ Press the lock for battery lock (1) and hold it down.
- ▶ Push the battery lock (2) in the direction of the arrow.
- ▶ Pull the battery out of the battery compartment.

Installing the battery



- ▶ Position the battery at the edge of the casing (a).
- ▶ Tilt and put the battery into the battery compartment.

Performing the battery learning cycle

The battery contains electronics that continuously monitor the battery charging level and display the current charging level. To compensate for measuring errors in the electronics, and because the chemical properties of the battery change over time, the electronics must be recalibrated regularly. This calibration is carried out using a battery learning cycle. Using the battery learning cycle ensures that the maximum battery capacity can always be used. During the learning cycle a defined charging cycle is carried out.



The battery learning cycle lasts between four and six hours and must not be aborted. During this period you can not work with the notebook!

After six months, at the latest, you should run a learning cycle with the battery again.

- ▶ Connect the power adapter to the notebook (also see the section "Connecting the power adapter").
- ▶ Restart the notebook (switching ON/OFF or warm boot).

The following display briefly appears on the screen during start-up:

<ESC> Boot Menu <F2> BIOS Setup <F6> Battery learning <F12> Boot from LAN

- ▶ Press function key **[F6]**.
- ▶ Press the **[C]** button to start the learning cycle.

When the learning cycle is ended, a corresponding message is displayed.

- ▶ Exit the menu with the **[S]** key.

Energy saving functions

The notebook uses less power when the power management features are enabled. You will then be able to work longer when using the battery before having to recharge it.



If you are connected to a network or use an integrated modem, PC LAN card, or PC modem card, we advise against enabling an energy saving mode. This could lead to an interruption of your network connection.

When not using the notebook for long periods of time, first end the energy saving mode, then switch off the notebook. Never switch the notebook off with the Suspend/Resume button while the notebook is in one of the energy-saving modes.

If your notebook is in an energy-saving mode:

- Do not connect any external devices.
- Do not disconnect any external devices.
- Do not attempt to switch the notebook on if the built-in battery is flat.
- Do not change or remove the floppy disk, if inserted.
- Do not add or remove RAM.
- Do not add or remove a PC card.

The operating system uses ACPI (Advanced Configuration and Power Interface) for power management under Windows XP. The energy saving functions can be activated under *Start - Settings - Control Panel - Power Options*.

Under Windows, *Hibernate* is activated by default.

Hard disk

The hard disk is the most important storage medium of your notebook. You can work considerably faster and more efficiently if you copy applications and files from floppy disks and/or CDs to your hard disk.

When the hard disk is accessed, the hard disk indicator lights up.

Optical drive

Your notebook is delivered with an optical drive. Depending on the variant, your notebook is equipped with a DVD+RW drive or a combo drive (CD-RW/DVD).

Optical drives can either only read or both read and write different optical data storage media. The meaning of the respective optical data storage media is described in the following:

CD-ROM

Abbreviation for **Compact Disc - Read Only Memory**. A CD-ROM is an optical data storage medium that can contain a maximum of 700 Mbytes. These data cannot be changed.

CD-R

Abbreviation for **Compact Disc Recordable**. A CD-R is an optical data storage medium that can only be written with a maximum of 700 Mbytes of data. Then these data cannot be changed, but can be read as often as desired.

CD-RW

Abbreviation for **Compact Disc ReWriteable**. A CD-RW is an optical data storage medium that can be written with a maximum of 700 Mbytes of data a virtually unlimited number of times. This means the data can be deleted and changed.

DVD (DVD-ROM and DVD video)

Abbreviation for **Digital Versatile Disc** or **Digital Video Disc**. A DVD is an optical data storage medium that can contain a maximum of 17 Gbytes of data. These data cannot be changed.

DVD+RW

Abbreviation for **Digital Versatile Disc** or **Digital Video Disc + ReWriteable**. A DVD+RW is an optical data storage medium that can be written with a maximum of 4.7 Gbytes of data virtually an unlimited number of times. This means the data can be deleted and changed.



DVD+RW, DVD-RAM and DVD-RW are different standards. The notebooks from Fujitsu Siemens Computers GmbH **only** support the **DVD+RW** standard.

Combo drive (CD-RW/DVD)



The combo drive in your notebook contains a light-emitting diode (LED), classification as per IEC 825-1:1993: CLASS 1 LASER, and may therefore not be opened.

With the combo drive you can read all optical data storage media named above. You can also write CD-Rs and CD-RWs.

DVD+RW drive



The DVD+RW drive in your notebook contains a light-emitting diode (LED), classification as per IEC 825-1:1993: CLASS 1 LASER, and may therefore not be opened.

With the DVD+RW drive you can read all optical data storage media named above. You can also write CD-R, CD-RW and DVD+RW.

Handling CD/DVDs

From this point all different optical data storage media will be referred to as CD/DVDs; the writeable optical data storage media are called blanks.



Observe the following when handling CD/DVDs:

- Avoid touching the surface of a CD/DVD. Handle CDs/DVDs only by their edges!
- Always store CDs/DVDs in their cases. Thus you avoid dust contamination, scratches, bending or other damage.
- Protect your CDs/DVDs from dust, mechanical vibration and direct sunlight!
- Avoid storing a CD/DVD in areas subject to high temperatures or humidity.



To utilise the optimum writing speed, use CD blanks marked "Multispeed" or "High Speed".

Use only DVD blanks of the type DVD+RW. Other types of DVD blanks are not supported by your optical drive.

Inserting or removing a CD/DVD

The notebook must be switched on.

- Push the insert/eject button.

The drive tray will open.



- ▶ Pull the drive tray all the way out (1).
 - ▶ Place the CD/DVD in the drive tray with the label facing upwards (2).
- or
- ▶ Take out an inserted CD/DVD.
 - ▶ Push in the drive tray until you feel it lock into place.

Manual removal (emergency removal)

In the event of a power failure or damage to the drive it may be necessary to manually remove the CD/DVD.

- ▶ Switch the notebook off.



- ▶ Press a pen or a piece of wire (e.g. a paper clip) firmly into the opening.

The drive tray is unlocked. You can now pull the drive tray out of the drive.

Regional codes for DVD films and DVD players

DVD films and DVD players (e.g. the optical drive of your notebook) are always provided with a regional code. The regional codes of DVD films and DVD players must match so that the DVD film can be played back.

There are six different regional codes:

- Regional code 1: USA and Canada
- Regional code 2: Egypt, Europe, Japan, South Africa and the Middle East
- Regional code 3: Southeast Asia (including Hong Kong, Indonesia, Philippines, South Korea, Taiwan)
- Regional code 4: Australia, New Zealand, Southeastern Pacific, Central and South America and the Caribbean
- Regional code 5: Africa (except South Africa), India and the former states of the USSR
- Regional code 6: China

The optical drive of your notebook supports the function RPC-II (Phase II System of Regional Playback Control). This function permits the final user to change the regional code of the drive up to five times to play back corresponding DVD films. Then the last regional code selected is retained and cannot be changed again.



If a DVD film is to be playable in all regions, it has the regional code 0.

Before buying a DVD film you should check that the regional code of the DVD film matches the regional code set for the optical drive of your notebook.

Adjusting AutoPlay function of optical drive

With the AutoPlay function you can specify whether or not a program or action is to be run/carried out depending on the CD/DVD content type of Windows XP. For example, you can specify that when an Audio CD is inserted, the Media Player is automatically started and automatically plays the Audio CD.

You can set the AutoPlay function of the optical drive according to your needs. Proceed as follows:

- ▶ Click on the Start menu with the right mouse button or touchpad key.

A context menu appears.

- ▶ Click on *Explorer*.
- ▶ Click on the corresponding drive with the right mouse button or touchpad key.

A context menu appears.

- ▶ Click on *Properties*.
- ▶ Click on the *AutoPlay* tab.
- ▶ Adjust the AutoPlay function to meet your needs.



Please note that you must select the desired action and confirm it with *Apply* for each individual CD/DVD content type.

Floppy Disk Drive

Your notebook is equipped with a floppy disc drive as an option.



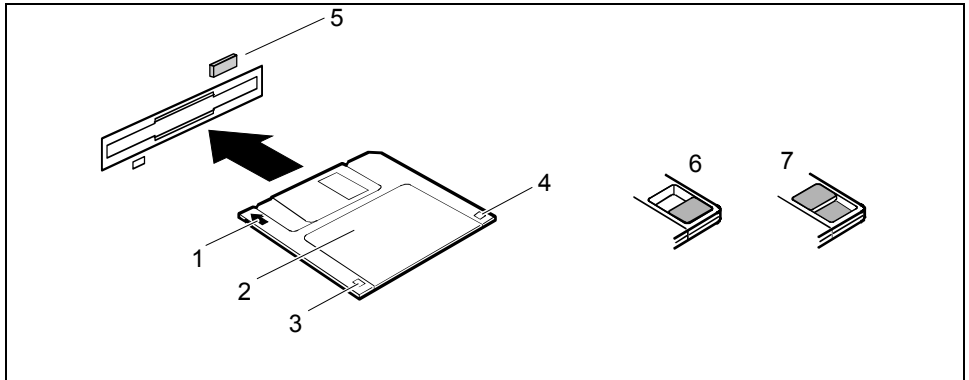
Never clean the floppy disk drive with cleaning disks. Any attempt would destroy the read/write head in the disk drive within 20 seconds.

Make sure that no floppy disk is inserted in the floppy disk drive during transport. Otherwise the eject button may break off and the floppy disk drive will be damaged.

Working with floppy disks



Follow the instructions supplied by the vendor of the floppy disks.



1 = Insertion direction

2 = Label area

3 = Write protection tab for a 1.44 Mbyte floppy disk

4 = Identification of a 1.44 MB floppy disk or write protect switch on a 120 MB floppy disk

5 = Eject button for inserted floppy disks

6 = Disk is write-protected

7 = Disk is not write-protected

To insert a diskette

- Push the floppy disk into the drive in the insertion direction (1) until it engages. The label should be facing upward.

To remove a diskette

- Push the eject button (5).

Protect the floppy disk against being overwritten or erased

- ▶ Slide the write-protect slider into position (6). The hole is now visible.

Deactivate write protection

- ▶ Slide the write-protect slider into position (7). The hole is now covered.

PC cards

Two PC card slots enable the device to operate two type II PC cards or one type III PC card (CardBus or PCMCIA).



Consult the documentation supplied by the PC card's manufacturer and follow the instructions provided.

Never use force when inserting or removing a PC card.

Make sure that foreign objects do not fall into the PC card slot.

Installing a PC card



- ▶ Insert the PC card, contacts first, into the slot guide. The labelled side of the PC card should be facing upward.
- ▶ Gently push the PC card into the slot until you feel it click into place.



Consult the documentation supplied with the PC card for information on how to install the necessary device drivers.

For further information refer to the information files (e.g. *.TXT, *.DOC, *.WRI, *.HLP or *.PDF) provided on the PC card driver diskette or in the operating system manual.

Removing a PC card

Use the small PC card icon located in your task bar to stop the card.

- ▶ Click on the PC card icon in the task bar with the right mouse button.
- ▶ Select *PC card Properties*.
- ▶ Select the card you wish to stop and click on *Stop*.

Wait for the dialogue box which tells you that it is now safe to remove the PC card.



- ▶ Press the eject button (1) to remove the PC card. If the eject buttons are pushed in flush with the case, first press the buttons to snap them out.
- ▶ After the eject button is pressed, the PC Card (2) extends somewhat out of the notebook and can be removed.

Microphone and loudspeakers

Your notebook contains a built-in microphone and two loudspeakers.

If you attach an external microphone, the built-in microphone is disabled. The internal loudspeakers switch off when you attach headphones or external loudspeakers to the audio jack.

Adjusting the volume

- ▶ To adjust the volume use the Windows volume control from the *Start* menu *All Programs - Accessories - Multimedia - Volume Control*,

or

- ▶ use the loudspeaker symbol in the task bar.

Switching the loudspeakers on/off

- ▶ To switch the loudspeakers on and off use the Windows volume control from the menu *Start - All Programs - Accessories - Multimedia - Volume Control*.

or

- ▶ use the loudspeaker symbol in the task bar.

Integrated 56k modem

The integrated 56k modem supports data communication applications, such as:

- Modem operation: High-speed downloads at up to 56,000 bit/s (V.90). Downward-compatible to V.34 modems.
- Fax mode: Transmitting and receiving at up to 14,400 bit/s
- Simple country adaptation with programme

The modem complies with the EU Directive 91/263/EEC (Telecommunications terminal equipment directive) and has been checked in agreement with the guideline TBR-21.

The modem can be operated in the following countries:

Multifrequency (MFC) dialling

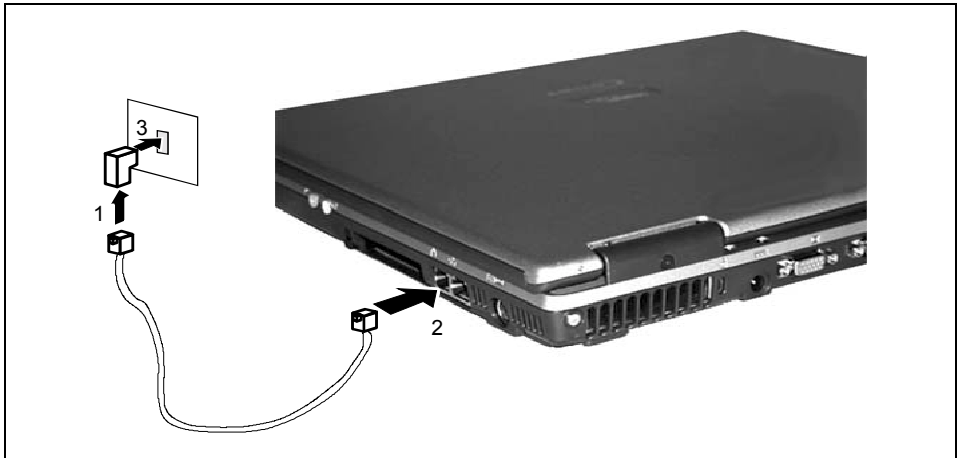
Belgium, Denmark, Germany, Finland, France, Greece, Great Britain, Holland, Ireland, Iceland, Italy, Luxembourg, Norway, Austria, Portugal, Sweden, Switzerland and Spain.

Pulse dialling:

Belgium, France, Holland and Italy.

Also in: Poland, Slovenia, South Africa and Hungary.

Connecting notebook modem to telephone connection



- ▶ Connect the modem cable supplied to the country-specific telephone adapter (1).
- ▶ Connect the modem cable to the modem port of the notebook (2).

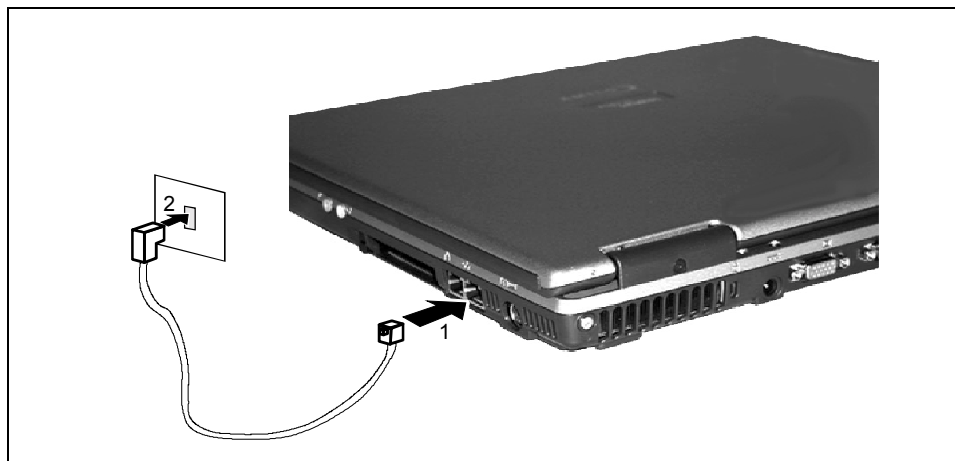
- Connect the modem cable to your telephone wall socket (3).



If you attach your modem on a TAE-N-connector the phone respectively data cable is busy. The cable cannot be used for other communication devices at the same time. Pull the modem plug out of the TAE-N-power socket after the data transfer, because also with connected cable no other communication devices can be used.

Ethernet and LAN/DSL ready

The internal LAN module of your notebook supports Ethernet-LAN (10/100 Mbps).



- Connect the LAN cable to the notebook's LAN connector (1).
- Connect the network cable to your LAN network connector (2).

Security functions

Your notebook enables you to protect your system and personal data in a number of ways against unauthorised access. By combining these options, you can achieve maximum protection for your system.

In this chapter you will learn which security functions your notebook is equipped with, which advantages these functions offer you and how to configure and use them.



Please consider that in the case of improper use, you yourself will also be unable to access your system and your data. Please note therefore the following hints:

- Back up your data on external data carriers at regular intervals.
- Passwords must be assigned for some security functions. Please be sure to note these passwords, as otherwise you will no longer be able to access your system. We recommend that you make a note of the passwords and keep them in a safe place.

If you lose both the user and the admin passwords, you must contact our help desk. The loss of passwords is not a warranty case and is therefore subject to charge.

Overview of all security functions

The following sections contain a brief description of the security functions that are provided with your notebook as standard equipment.

Kensington Lock

With the Kensington MicroSaver, a sturdy steel cable, you can protect your notebook from theft. For this reason your notebook is equipped with a device for the Kensington MicroSaver. The Kensington MicroSaver is available as an accessory.

BIOS password protection

You can protect your personal data from unauthorised access with various passwords. By combining these different options, you can achieve maximum protection for your system.

Password protection for the BIOS setup

With the Supervisor password you prevent unauthorised opening of the *BIOS Setup*, and with it access to important system settings. In the *BIOS Setup* you can also activate protection for the operating system and your hard disk.

Password protection for the operating system

With corresponding settings in the *BIOS Setup* you can block starting of the operating system. Only those who know the supervisor or user password can access the system.

Password protection for your hard disk

By activating the hard disk protection in the *BIOS Setup* you prevent unauthorised access to the hard disk drive. The hard disk password is checked internally during each system start-up and ensures that the hard disk can only be used in conjunction with the related device.

Brief overview of the security functions

Security function	Type of protection	Preparation
Kensington Lock	Mechanical	Mount and lock Kensington MicroSaver (accessory)
BIOS password protection	Password protection for <i>BIOS Setup</i> and operating system with Setup and Power-on password. The passwords consist of a maximum of eight alphanumeric characters.	Specify at least one setup password in the <i>BIOS Setup</i> and activate the password protection for the operating system as desired.

Using Kensington Lock



1 = Kensington Lock

- Fit the Kensington MicroSaver on the device (1) on your notebook.

Configuring password protection in BIOS Setup



Before using the various options of password protection for your data security in the *BIOS Setup*, please note the following hints:

- Please keep in mind your passwords in any case, as you will not be able to access your *BIOS Setup* and/or your system any longer, if you forget both the user password and the supervisor password.
The loss of passwords is not a warranty case and is therefore subject to charge.
- Back up your data on external data carriers at regular intervals.



Passwords can be up to eight characters long. You can use all alphanumeric characters and need not distinguish between uppercase and lowercase characters.

Protecting BIOS Setup (supervisor and user password)

We recommend that you print out the following instructions, as these cannot be displayed while setting the password.

You prevent unauthorised opening of the *BIOS Setup* with both the supervisor and the user password. With the supervisor password you have access to all functions of the *BIOS Setup*, and with the user password only to part of the functions. You can only set a user password if a supervisor password has already been assigned.



Please refer to section "Settings in BIOS Setup" for a description of calling and operating the *BIOS Setup*.

Set the supervisor and user password

- ▶ Call *BIOS Setup* and select the *Security* menu.
- ▶ Mark the *Set Supervisor Password* field and press the Enter key.

With *Enter new Password*: you are then requested to enter a password.

- ▶ Enter the password and press the Enter key.

With *Re-Enter new Password* you are asked to confirm the password.

- ▶ Enter the password again and press the Enter key.

With *Notice: Changes have been saved* you receive a confirmation that the new password has been saved.

- ▶ To assign the user password, mark the field *Set User Password* and proceed exactly as when configuring the supervisor password.

If you do not want to make any other settings, you can exit *BIOS Setup*.

- ▶ Select the *Exit Saving Changes* option in the *Exit* menu.

The notebook is rebooted and the new password is effective. If you now want to open the *BIOS Setup*, you must first enter your supervisor or user password. Please note that you only have access to a few BIOS settings with the user password.

Change supervisor or user password

- ▶ Open the *BIOS Setup* again and there the *Security* menu.
- ▶ When changing the password, proceed exactly as for password assignment.

You can only change the supervisor password when you have logged into the *BIOS Setup* with the supervisor password.

Cancelling passwords

To cancel a password (without setting a new password) run the following steps:

- ▶ Call *BIOS Setup* and select the *Security* menu.
- ▶ Mark the *Set User Password* or *Set Supervisor Password* field and press the Enter key.

With *Enter new Password* you will then be asked to enter a password.

- ▶ Press the Enter key twice.
- ▶ Select the *Exit Saving Changes* option in the *Exit* menu.

The notebook is rebooted and the password is cancelled.

With the supervisor password you simultaneously deactivate the user password.

Password protection of operating system



With the supervisor password or the user password, you have assigned in the *BIOS Setup* (see section "Set the supervisor and user password"), you can also prevent booting of the operating system.

Activating system protection

- ▶ Call *BIOS Setup* and select the *Security* menu.
- ▶ If you have not assigned BIOS passwords yet, define the supervisor and the user password now, if desired (see "Set the supervisor and user password" section).
- ▶ Mark the *Password on Boot* field and press the Enter key.

If you do not want to make any other settings, you can exit *BIOS Setup*.

- ▶ Select the *Exit Saving Changes* option in the *Exit* menu.

The notebook reboots and you are asked to enter your password (the supervisor or user password).

Deactivating system protection

- ▶ Call *BIOS Setup* and select the *Security* menu.
- ▶ Mark the *Password on Boot* field and press the Enter key.
- ▶ Select *Disabled* and press the Enter key.

If you do not want to make any other settings, you can exit *BIOS Setup*.

- ▶ Select the *Exit Saving Changes* option in the *Exit* menu.

The notebook reboots and there is no longer any password protection for the operating system.

Password protection for hard disk



The hard disk password prevents unauthorised access to the hard disk drives and is checked internally each time the system is booted. The condition for this is that you have assigned at least the supervisor password.

Activating hard disk protection

- ▶ Call *BIOS Setup* and select the *Security* menu.

If you have not assigned BIOS passwords yet, define the supervisor and the user password now, if desired (see "Set the supervisor and user password" section).

- ▶ Mark the *Hard Disk Security* field and select the *Enabled* entry.

If you do not want to make any other settings, you can exit *BIOS Setup*.

- ▶ Select the *Exit Saving Changes* option in the *Exit* menu.

The notebook reboots and your hard disk is now protected with a password.

Deactivating hard disk protection

- ▶ Call *BIOS Setup* and select the *Security* menu.
- ▶ Mark the *Hard Disk Security* field and select the *Disabled* entry.

If you do not want to make any other settings, you can exit *BIOS Setup*.

- ▶ Select the *Exit Saving Changes* option in the *Exit* menu.

The notebook reboots and there is no longer any password protection for the hard disk.

Connecting external devices



Under all circumstances, please observe the safety notes provided in the "Important notes" chapter.

Read the documentation on the external device before connecting it.

Do not connect or disconnect cables during a thunderstorm.

Do not pull on the cable when disconnecting a cable. Always take hold of the actual plug.

Adhere to the order described in the following when you connect external devices to the notebook or separate them from the notebook:

Connecting devices to notebook

- 1) Turn off all power and equipment switches.
- 2) Remove all power plugs from the mains outlets.
- 3) Connect all the cables to the notebook and the external devices.
- 4) Plug all data communication cables into the utility sockets.
- 5) Plug all power cables into the mains supply.

Disconnecting devices from notebook

- 1) Turn off all power and equipment switches.
- 2) Remove all power plugs from the mains outlets.
- 3) Unplug all data communication cables from the utility sockets.
- 4) Disconnect all the cables from the notebook and the external devices.

The ports are marked with the following symbols (or with similar symbols):



LAN-port (Local Area Network, for Network connection)



Port for power adapter



PS/2 port for keyboard and mouse



Headphones port



Parallel port



Microphone jack



Monitor port



Modem port



S Video out socket (video output)



USB port



Serial port



FireWire port



Some of the external devices require special drivers (see the operating system and external device documentation).

Connecting an external monitor

An external monitor can be connected to the notebook.

- ▶ Using the **[Fn] + [F5]** key combination you can switch back and forth between the external monitor and the LCD screen.
- ▶ If your notebook is equipped with a TFT monitor, you can display the same picture on the external monitor and the LCD screen simultaneously.
- ▶ Switch off the notebook and the external monitor.
- ▶ Connect the external monitor to the monitor port on your notebook.
- ▶ First switch on the monitor and then the notebook.

Setting the refresh rate for your external monitor

The refresh rate must be correctly set so that the image does not flicker.

- ▶ To change the refresh rate or resolution select the monitor type in the menu *Start - Settings - Control Panel - Display - Settings - Advanced - Monitor*.
- ▶ Now select the *Adapter* tab.
- ▶ Adjust the refresh rate and then click *Apply*.



If the refresh rate set is too high, the monitor may be damaged. Please see the documentation included with your monitor for the maximum possible refresh rate.

Connecting an external PS/2 mouse or keyboard

You do not need to switch your notebook off.

- ▶ Simply connect the external keyboard or mouse to the PS/2 port on your notebook.

Using the parallel port

- ▶ Switch the notebook off.
- ▶ Connect the data cable of the printer to the parallel port on the notebook.
- ▶ Plug the printer power cable into the mains outlet.
- ▶ First switch the printer on, then the notebook.

Connecting USB devices (up to 12 Mbps)

On the USB ports you can connect external devices that also have a USB port (e.g. a printer, a scanner or a modem).



USB devices are hot-pluggable. This allows cables from USB devices to be connected and disconnected with the system switched on.

Additional information can be found in the documentation for the USB devices.

- ▶ Connect the data cable to the external device.
- ▶ Connect the data cable to a USB port of the notebook.



Device drivers

The devices you connect to the USB ports usually require no driver of their own, as the required software is already included in the operating system. However, if the USB device requires its own software, please install it from the data carrier provided with the USB device.

Connecting external audio devices

Headphones port

Via the headphone port you can connect either headphones or external loudspeakers to your notebook.

Microphone jack

Via the microphone port you can connect an external microphone to your notebook.

Adjusting the volume

- ▶ To adjust the volume use the Windows volume control from the *Start* menu *All Programs - Accessories - Multimedia - Volume Control*,
or
- ▶ use the loudspeaker symbol in the task bar.

Switching the loudspeakers on/off

- ▶ To switch the loudspeakers on and off use the Windows volume control from the menu *Start - All Programs - Accessories - Multimedia - Volume Control*.
or
- ▶ use the loudspeaker symbol in the task bar.

Connecting a television set to S-Video Out

You can connect a television set to the notebook, e.g. to view a DVD comfortably.

- ▶ With the key combination **[Fn] + [F5]** you can switch between the television set and the LCD screen of the notebook.
- ▶ Switch off the notebook and the television set.
- ▶ Connect the television set to the S-Video Out socket of your notebook.
- ▶ First switch on the television set and then the notebook.

Activating television set and selecting country setting

- ▶ Select the *Settings* tab via *Start - Control Panel - Appearance and Themes - Display*.
- ▶ Click on the *Advanced* button.

The *Default Monitor and Mobility Radeon Properties* window opens.

- ▶ Select the *Display* tab.
- ▶ Click on the *TV* button and then on the *Apply* button.

The *TV Properties* window opens.

- ▶ Select the desired country setting in the *Format* tab in the *TV Format Selector* field.
- ▶ Click on the *Apply* button to save the selected settings.

Connecting FireWire devices

External devices such as digital audio/video devices or other high-speed devices can be connected to the FireWire port. The FireWire port operates at a speed of 400 Mbit per second.



FireWire devices are hot-pluggable. Therefore, the cables of FireWire devices can be connected and disconnected with the system switched on.

Additional information is provided in the documentation of the FireWire devices.

- ▶ Connect this data cable of the external devices to the FireWire port of the notebook.
- ▶ Plug the power cable of the external device into the mains outlet.

Settings in BIOS Setup

In *BIOS Setup* you can set the system functions and the hardware configuration of the notebook. The settings can only be changed via the keyboard.

When it is delivered, the notebook is set to factory default settings. You can change these settings in *BIOS Setup*. Any changes you make take effect as soon as you save and quit the *BIOS Setup*.

The *BIOS Setup* programme contains the following menus:

<i>Main:</i>	for system settings as time, date, hard disk and monitor selection
<i>Advanced:</i>	for system settings such as ports and keyboard
<i>Security:</i>	for password settings and safety functions
<i>Power:</i>	for setting the energy saving functions
<i>Boot:</i>	for configuring the boot sequence
<i>Exit:</i>	to exit the <i>BIOS Setup</i>

Start BIOS Setup

- Restart the notebook (switching ON/OFF or warm boot).

The following or a similar display appears on the screen during booting:

<ESC> Boot Menu <F2> BIOS Setup <F6> Battery Learning <F12> Boot
from LAN

- When this message appears, press the key **F2**.



If a password has been assigned:

- Enter the password and press the Enter key.

If you have forgotten the password, contact your system administrator or contact our hotline/help desk.

Operating BIOS Setup



Press the **[F1]** key to display help on the operation of *BIOS Setup*. The description of the individual settings is shown in the right-hand window of the *BIOS Setup*.

You can revert to the default settings for the *BIOS Setup* menu you are currently in, by using the **[F9]** function key.

- ▶ Use the cursor key **[←]** or **[→]** to select the menu you wish to access to make changes.
- ▶ Press the Enter key.

The menu is displayed on the screen.

- ▶ Use the cursor key **[↑]** or **[↓]** to select the field you wish to change.
- ▶ Press the Enter key to confirm your selection.
- ▶ Press the **[ESC]** key to exit the selected menu.
- ▶ For future reference, make a note of the changes you have made (for example, in this manual).

Exiting BIOS Setup

To exit *BIOS Setup*, select the *Exit* menu from the menu bar. You can then decide which settings you want to save. The *Exit* menu offers the following options.

You must mark the required option and activate it with the Enter key.

Exit Saving Changes

Select *Exit Saving Changes* and *Yes* to save the current settings and exit the *BIOS Setup*. The device is rebooted and the new settings come into effect.

Exit Discarding Changes

Select *Exit Discarding Changes* and *Yes* to discard the changes you have made. The settings which were in force when *BIOS Setup* was called remain effective. *BIOS Setup* is terminated and the device is rebooted.

Load Setup Default

To revert all the menus of *BIOS Setup* to the default entries, select *Load Setup Default* and *Yes*.

Discard Changes

To load the values of all the menus of *BIOS Setup* that were in effect when *BIOS Setup* was called, select *Discard Changes* and *Yes*. If you want to exit *BIOS Setup* with these settings, select *Exit Saving Changes* and *Yes*.

Save Changes

To save settings without exiting *BIOS Setup*, select *Save Changes* and *Yes*.

Troubleshooting and tips



Take note of the safety hints in the "Important notes" chapter, when you connect or disconnect cables.

If a fault occurs, try to correct it as described. If you fail to correct the problem, proceed as follows:

- ▶ Make a note of the steps and the circumstances that led to the fault. Also make a note of any error messages displayed.
- ▶ Switch the notebook off.
- ▶ Contact your sales outlet or our customer service centre.

Restoring operating system

Using the "Windows Recovery CD" and the "Drivers & Utilities CD", you can restore the operating system of your notebook.

All hard disk contents are deleted during operating system restoration. After this, operating system, drivers and software utilities will be reinstalled. For this reason you should try to save important data to a backup medium before you restore the hard disk contents.

- ▶ Insert the "Windows Recovery CD" into the optical drive.
- ▶ Switch the notebook on.
- ▶ Follow the instructions on the screen.



Detailed PC knowledge is required for manual partitioning.

You must then reinstall all the drivers. Use the "Drivers & Utilities" CD provided.

The notebook's date or time is incorrect

- ▶ Set the time and/or date in the *Main* menu.



If the date and time are repeatedly incorrect when you switch on the notebook, the buffer battery that supplies the internal clock is dead.

Connect the notebook via its power adapter to a grounded mains outlet or install a fresh battery. The buffer battery will take approximately two days to complete its recharge. If the problem persists, contact your sales office or our hotline/help desk.

The LCD screen of the notebook remains blank

If your LCD screen remains blank this may be due to the following:

Monitor is switched off

- ▶ Press a key or enter the password

External monitor or television set connected

- ▶ Set the setting *Display Settings* to *LCD BIOS-Setup* in the menu *Advanced - Video Features*.

The LCD screen is difficult to read

Reflection

- ▶ Turn the notebook or alter the tilt of the LCD screen.

The external monitor stays blank

If your screen remains blank this may be due to the following:

Monitor is switched off

- ▶ Switch the external monitor on.

Power saving has been activated (screen is blank)

- ▶ Press any key to continue.

Brightness control is set to dark

- ▶ Adjust the brightness control.

Screen output is set to the notebook's LCD screen

- ▶ Press the key combination **[Fn] + [F5]** (selecting internal/external display).

The external monitor's power cable or data cable is not connected properly

- ▶ Switch off the external monitor and the notebook.
- ▶ Check whether the power cable is plugged properly into the external monitor and into the power socket.
- ▶ Check whether the data cable is properly connected to the notebook and the external monitor (if it is plugged in with a connector).
- ▶ Switch on the external monitor and the notebook.

The external monitor is blank or the image is unstable (under Windows)

The wrong external monitor has been selected or the wrong screen resolution has been set for the application programme.

- ▶ Terminate the application programme in Windows with **[Alt] + [F4]**. If the fault continues to occur after ending the programme, switch over to the notebook's internal LCD screen with **[Fn] + [F5]** and carry out the following routine:
- ▶ Select the correct monitor or set the correct screen resolution.
 - Setting the screen resolution: Select *Start - Settings - Control Panel - Display - Settings* and then the screen resolution you require in the *Resolution* field.
 - Selecting the monitor: Select the correct monitor under *Start - Settings - Control Panel - Display - Settings - Advanced Properties - Monitor - Modify*.

The notebook cannot be started

The battery is not installed correctly

- ▶ Switch the notebook off.
- ▶ Check whether the battery is installed correctly in its compartment.
- ▶ Switch the notebook on.

The battery is dead

- ▶ Charge the battery.

or

- ▶ Install a charged battery.

or

- ▶ Connect the power adapter to the notebook.

The power adapter is not connected correctly

- ▶ Switch the notebook off.
- ▶ Check whether the power adapter is connected correctly to the notebook.
- ▶ Check whether the power cable is plugged properly into the power adapter and into the mains outlet. The indicator on the power adapter should illuminate.
- ▶ Switch the notebook on.

The notebook is prevented from booting by a disk in the floppy disk drive.

- ▶ Check whether this floppy disk is a system disk. Remove the floppy disk.

Operating system files may be damaged or missing.

- ▶ Boot the notebook with a system floppy disk, via the floppy disk drive.

The notebook stops working

The notebook is in Standby or Suspend mode

- ▶ Exit the Standby mode or the Suspend mode (switch on the notebook).

An application programme has caused the malfunction

- ▶ Close the application programme or restart the notebook by switching it on/off or with a warm boot.

The battery is dead

- ▶ Charge the battery.

or

- ▶ Install a charged battery.

or

- ▶ Connect the power adapter to the notebook.

The mouse does not work

Mouse driver is not loaded

- ▶ Check whether the correct mouse driver is properly installed and is present before the application programme is started.
Detailed information can be found in the User Guides for the mouse, the application programme or the operating system.

Mouse is not connected

- ▶ Switch the notebook off.
- ▶ Check whether the mouse cable is correctly connected to the notebook.
If you use an adapter or extension lead with the mouse cable, check the connections.
- ▶ Switch the notebook on.

The floppy disk cannot be written

- ▶ Check whether the disk is OK and is not write-protected.

The printer does not print

- ▶ Make sure that the printer is switched on and is on-line (see the manuals supplied with the printer).
- ▶ Check that the cable connecting the notebook and the printer is connected properly.
- ▶ Check that the correct printer driver is installed.
- ▶ Check in the *BIOS Setup* whether the *Onboard Devices Configuration* field is set correctly for the port you are using.

The DVD film does not continue to play

Should the picture freeze when playing some DVD films, deactivate the accelerated hardware decryption (it is activated in the default setting; this can be recognised from the checkmark in the corresponding checkbox).

- ▶ Open the drive tray.
- ▶ Place the DVD in the drive tray with the label facing upwards.
- ▶ Push in the drive tray until you feel it lock into place.
- ▶ Wait until the WinDVD starts.
- ▶ Press the right mouse button or touchpad key.

A context menu appears.

- ▶ Click on *Configuration* and then on *Video*.
- ▶ Click on the checkmark in the checkbox of *Hardware Acceleration*.

The checkmark disappears.

- ▶ Click on *OK*.

The function is now deactivated.

Acoustic warnings

A beep sounds approx. every 15 seconds.

The battery is almost flat.

- ▶ Charge the battery.

System configuration contains invalid data

- ▶ Switch the notebook off.
- ▶ Switch the notebook on.
- ▶ Enter the *BIOS Setup* programme by pressing **[F2]**.
- ▶ Select the default values under *Load Default Settings*.
- ▶ Mark *Yes* in the *Do you want to load default settings?* dialogue box.
- ▶ Press the Enter key.

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

Error messages on the screen

This section describes the error messages generated by the *BIOS Setup*. Error messages displayed by the operating system or programmes are described in the relevant documentation.

Setup Warning Invalid Password <Continue>

This message is displayed following password entry.

- ▶ Press the key combination **[Fn] + [PadLK]**.
- ▶ Re-enter the password once.

If the problem persists, contact your sales office or our hotline/help desk.

CMOS Battery Bad

If the error message occurs repeatedly, then the buffer battery in the notebook is flat.

- ▶ Connect the notebook via its power adapter to the mains outlet. The buffer battery will take approximately two days to complete its recharge.

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

System CMOS checksum bad - Default configuration used

The system configuration information is incorrect.

- ▶ Switch the notebook off.
- ▶ Switch the notebook on.
- ▶ Enter the *BIOS Setup* programme by pressing **[F2]**.
- ▶ Select the *Exit* menu in the *BIOS Setup*.
- ▶ Select the *Default Setup* entry and click on *OK*.

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

Insert system diskette and press Enter key to reboot

The operating system cannot be loaded or the hard disk contains no operating system or is not formatted.

- ▶ Insert a system disk.
- ▶ Press any key to continue.

Invalid system disk - Replace the disk, and then press any key

The inserted disk is not a system disk or the inserted system disk is defective.

- ▶ Insert another system disk.
- ▶ Press any key to continue.

If you wish to boot from floppy disk:

- ▶ Insert a system disk.
- ▶ Press any key to continue.

If the operating system cannot be loaded from floppy disk:

- ▶ Remove the floppy disk from the drive.

Diskette drive A error

- ▶ Start the *BIOS Setup* and make sure that the parameter for floppy disk drive A has been set to the format 1.44 Mbyte, 3 1/2 inch.

Extended memory failed at offset: xxxx Failing Bits: zzzz zzzz

When testing the extended memory an error has resulted at the address xxxx.

- ▶ Check whether the additional memory module has been inserted correctly.

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

Failure Fixed Disk n

The settings of the hard disk drive are incorrect.

- ▶ Start the *BIOS Setup* (*IDE Adapter 0 Master* submenu) and select the correct settings.

Fixed Disk address conflict Diskette Drive address conflict

There is an I/O address conflict.

- ▶ Start the *BIOS Setup* and check the corresponding settings.

Incorrect Drive A type - run SETUP

- ▶ Start the *BIOS Setup* and make sure that the parameter for floppy disk drive A has been set to the format 1.44 Mbyte, 3 1/2 inch.

Keyboard controller error

- ▶ Switch the notebook off with the ON/OFF switch.
- ▶ Wait 3 - 5 seconds and switch on the notebook again.

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

Keyboard error

If you use an external keyboard:

- ▶ Check the connection and reboot the notebook.

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

nn Stuck key

- ▶ Make sure that no key is pressed.

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

Operating system not found

- ▶ Check in the *BIOS Setup* whether your hard disk has been set correctly.
- ▶ Make sure that the operating system is installed on the corresponding drive.

Press <F1> to resume, <F2> to SETUP.

This error message appears if an error occurs during the self-test before starting the operating system.

- ▶ Press the **[F1]** function key to start the operating system.
- ▶ Enter the *BIOS Setup* programme by pressing **[F2]**.

Previous boot incomplete - Default configuration used

Due to an error during the previous system boot, default values were used for certain settings. Check the *BIOS Setup* and the settings.

- ▶ Press the **[F1]** function key when prompted to do so.

Real Time clock error

- ▶ Contact your sales outlet or our hotline/help desk.

nnnnK Shadow RAM failed at offset: xxxx Failing Bits: zzzz

- ▶ Contact your sales outlet or our hotline/help desk.

System battery is dead - Replace and run SETUP

- ▶ Contact your sales outlet or our hotline/help desk.

System cache error - Cache disabled

- ▶ Contact your sales outlet or our hotline/help desk.

nnnnK System RAM failed at offset: xxxx Failing Bits: zzzz

If the error message appears repeatedly, please contact the place of purchase or our hotline/help desk.

System timer error

- ▶ Contact your sales outlet or our hotline/help desk.

Memory expansion

Depending on the upgrade level, your notebook is equipped with a 128MB, 256MB or 512MB memory module.



The notebook must be switched off when installing/removing the memory modules, it must not be in Suspend mode.

Use only memory expansions which have been released for your notebook (128, 256, or 512 Mbyte modules, PC 266 DDR SO DIMM, 200 pin JEDEC).

Never use force when installing or removing memory modules.

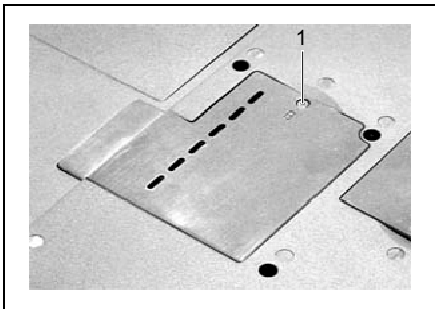
Make sure that foreign objects do not fall into the memory module compartment.

Installing/removing memory

During installation, note that the first slot is assigned at the factory and is therefore not available. The second slot is free and can be used for upgrading.

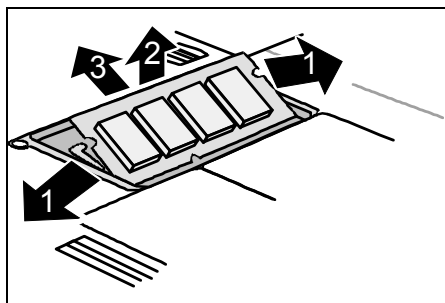
- ▶ Switch the notebook off.
- ▶ Close the LCD screen so that it locks into place.
- ▶ Unplug the power adapter from the mains outlet.
- ▶ Disconnect all cables connected to the notebook.
- ▶ Turn the notebook over.
- ▶ Place the notebook on a flat surface.
- ▶ Remove the battery (see "Removing the battery").

Removing cover



- ▶ Remove the screw (1).
- ▶ Open the cover.
- ▶ Pull off the cover.

Removing a memory module

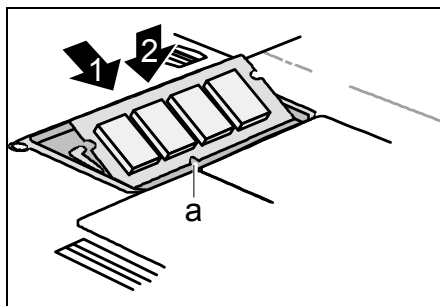


- ▶ Carefully push the two mounting clips outwards (1).

The memory module will flap upward (2).

- ▶ Pull the memory module out of its slot in the direction of the arrow (3).

Installing a memory module



- ▶ Insert the memory module with the contacts and the recess (a) facing the slot (1).

- ▶ Carefully push the memory module downwards until you feel it latch into place (2).

Testing memory modules after the installation

- ▶ Switch the notebook on and check whether the changed memory size is detected.

Technical data

Notebook

Processor:	Athlon XP from 1400+
Main memory (SO DIMM 3.3 V):	Maximum 1 Gbyte PC 266 DDR So DIMM 2 slots for 128, 256 or 512 Mbyte modules JEDEC 200-pin; of these one slot is available for upgrading the memory.
Possible drives:	<ul style="list-style-type: none">• Floppy Disk Drive• Hard disk drive• Optical drive

Electrical data

Regulations complied with:	CE, Energy Star
Maximum power draw: (notebook on with battery charging)	70/75/80 W

LCD display panel

Display diagonal:	<ul style="list-style-type: none">• 14.1-inch XGA TFT• 15-inch XGA TFT• 15-inch SXGA+TFT
-------------------	--

Graphics

Chip:	Radeon IGP 320M
Video memory:	8 Mbyte up to 128 Mbyte (depending on available main memory)
Supported resolutions on external monitor:	1600x1200
Colour depth:	32 bit

Audio

Sound:	Realtek ALC 2002 (AC'97)
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Input devices

Keyboard:	85/86 keys
Touchpad:	2 keys, 1 scroll

Technical data

Slots

PC Card slots (CardBus/PCMCIA):

PCMCIA 2 x Type II or 1 x Type III

Ports

- | | |
|------------------------------|--|
| • PS/2 port: | 6-pin mini DIN female connector |
| • Parallel port: | 25-pin female connector, bi-directional, ECP capable |
| • Monitor port: | 15-pin female connector |
| • Serial port: | 9-pin plug |
| • Microphone jack: | connector, mono |
| • Video port: | 7-pin mini DIN female connector |
| • USB (Universal Serial Bus) | triple |
| • LAN connector: | Female connector, RJ-45 |
| • Modem port: | Female connector, RJ-11 |
| • IEEE1394 connection | S400, 4-pin |
| • Kensington Lock | |

Environmental conditions

Environment class 7K1

DIN IEC 721

Environment class 7M2

DIN IEC 721

Temperature:

- | | |
|-------------------|-------------------|
| • Operating (7K1) | 5 °C 35 °C |
| • Transport (2K2) | -15 °C 60 °C |

Dimensions

Width/depth/height:

322 mm/272 mm/35.3/38 mm

Weight (depending on configuration):

approx. 3,2 kg

Battery

Charging time (when not in operation):

approx. 3 hours

Operating time depending on applications:

approx. 2 to 3 hours

Power adapter

Primary

- | | |
|-----------------------|----------------------------|
| • Rated voltage: | 100 V to 240 V (automatic) |
| • Frequency: | 50 Hz to 60 Hz (automatic) |
| • Max. rated current: | 1,5 A |

Secondary

- | | |
|-----------------------|----------------|
| • Rated voltage: | 19 V |
| • Max. rated current: | 3,7 A / 3,95 A |

Index

56k modem 37

A

Acoustic warnings 55

Alt Gr key 18

Anti-theft protection 40

Audio

adjusting the volume 36

ports 36, 47

Audio devices, connecting 47, 48

AutoPlay function 33

B

Backtab 22

Battery 15

charging 26

disposal 6

installing 27

learning cycle 28

lifetime 26

lock 15

maintenance 26

monitoring the charging level 27

removing 27

self-discharge 6, 26

storing 6, 26

technical data 62

Battery charge metre 27

Battery charging level, monitoring 27

Battery indicator 17

Beep, error message 55

BIOS password protection 39

BIOS Setup 49

exiting 50

operating 50

password protection 41

settings 49

starting 49

Blank 31

Board, note 4

C

CardBus, see PC card

CD blank 31

CD/DVD

AutoPlay function 33

emergency removal 32

inserting 31

removing 31

working with 31

CD-R 30

CD-ROM 30

CD-RW 30

CE marking 6

Charging capacity, battery 26

Cleaning 8

Closed cover switch 13, 24

Combo drive 30

AutoPlay function 33

Configuration, BIOS Setup 49

Content type, CD/DVD 33

Contents of delivery 9

Copyright-protected technology 5

Cursor keys 18

D

Damage during transport 9

Data, technical 61

Date, not correct 51

Date/Time incorrect 51

DC IN jack 15

Devices

connecting 45

disconnecting 45

Display, difficult to read 52

Disposal 6

DVD 30

regional codes 33

DVD blank 31

DVD film

picture frozen 55

regional codes 33

DVD video 30

DVD+RW 30

DVD+RW drive 31

AutoPlay function 33

DVD-ROM 30

DVD-RW 30

E

Easy Buttons 13, 23

Electrical data 61

E-Mail Easy Button 23

Emergency removal, CD/DVD 32

Energy consumption 29

Energy saving 5

Energy saving functions 5, 29

Energy Star 5

Enter key 18

Error correction 51

Error message

- acoustic 55
- on the screen 56

ESD 4

Ethernet LAN 38

External devices, connecting 45

External keyboard, connecting 46

External monitor

- connecting 46
- no screen display 53
- remains blank 52
- screen display drifts 53
- selecting the display 21, 25
- synchronising the display 21, 25

External PS/2 mouse, connecting 46

F

FireWire devices, connecting 48

FireWire port 15, 45

First time switching on 10

Floppy disk

- cannot write 54
- inserting 34
- removing 34
- working with 34
- write-protection 35

Floppy disk drive 13, 14, 34

- indicator 17

Floppy disk indicator 17

Front, view 14

Function keys 19

H

Halt an operation 22

Hard disk 15, 29

- restoring the contents 51

Hard disk indicator 17

Hardware, configuring 49

Headphone port 14, 45

Hole for manual ejection 14

I

IEEE 1394 port, see FireWire port

Important notes 3

Indicators 16

- Caps Lock 17
- Num Lock 17
- Scroll 17

Internet Easy Button 23

K

Kensington Lock 15, 39

- applying 40

Kensington MicroSaver 40

Key

Backspace 18

Caps Lock 18

cursor control keys 18

Fn key 18

Return 18

Shift 18

Tab key 18

Key combination 21

Keyboard 13, 18

activating number function 22

activating numeric keypad 22

cleaning 8

connecting 46

Keyboard port 14, 45

L

LAN module 38

LAN port 14, 38, 45

LCD display panel release 13

LCD screen 13

cleaning 8

increasing the brightness 21, 25

is blank 52

is difficult to read 52

notes 25

reducing the brightness 21, 25

remains blank 52

selecting the display 21, 25

setting the Desktop Area 25

setting the font size 25

settings 25

synchronising the display 21, 25

too bright 52

Left-hand side, view 14

Letter keys 18

Lifetime, battery 26

Location, selecting the 9

Lock for battery lock 15

Loudspeaker 13, 36

M

Main Memory, extension 59

Manual removal, CD 32

Manufacturer, notes 5

Memory cover 15

Memory expansion 59

installing 60

removing 60

testing 60

Memory module

installing 60

removing 60

testing 60

Menu key/Windows 19
 Microphone 13, 36
 Microphone jack 14, 45
 Mobile operation 7
 Modem 37
 connecting 37
 Modem port 14, 45
 Monitor port 15, 45
 Monitor settings 25
 Mouse
 does not work 54
 no mouse pointer 54
 Mouse port 14, 45

N

Notational conventions 2
 Notebook
 not starting 53
 operating 13
 setting up 9
 stops working 54
 switching off 11
 switching on 11
 switching on for the first time 10
 Notes, important 3
 Numeric keypad 20

O

ON/OFF switch 13
 switching off 11
 switching on 11
 ON/OFF switch, Wireless LAN 13
 Open notebook, view 13
 Opening
 Windows Explorer 22
 Opening dialog box
 Find 22
 Run 22
 System properties 22
 Operating system, restoring 51
 Operation, preparing for 10
 Optical data storage media
 handling 31
 overview 30
 Optical drive 14, 30
 AutoPlay function 33

P

Packing material 9
 Parallel port 15, 45
 Password protection
 BIOS Setup 39
 Hard disk 40
 Operating system 40

Pause key 18
 PC card 35
 installing 35
 removing 36
 slot 14
 PCMCIA, see PC card
 Peripherals, see devices
 Picture frozen, DVD film 55
 Power adapter
 connecting 10
 setting up 9
 technical data 62
 Power-on indicator 17
 Preparing for use 9
 Printer
 connecting 46
 does not print 55
 PS/2 mouse, connecting 46
 PS/2 port 14, 45

R

Rear, view 15
 Recycling 6
 Reflection 52
 Regional codes 33
 Release for opening 14
 Right-hand side, view 14

S

S Video Out socket 15, 45
 Safety 3
 Screen brightness
 decreasing 21, 25
 increasing 21, 25
 Screen lock 14
 Scroll indicator 17
 Security functions 39
 overview 39
 survey 40
 Select monitor 21, 25
 Self-discharge, battery 6, 26
 Serial port 15, 45
 Setting font size under Windows 25
 Setting pointer speed 25
 Setting resolution under Windows 25
 Setup, see BIOS Setup
 Shift key 18
 Signs and symbols 2
 Start key/Windows 19
 Status indicators 13, 14, 16
 Storage, battery 6
 Summer time 51
 Survey, security functions 40
 S-Video Out 48

Storage, battery 6
Summer time 51
Survey, security functions 40
S-Video Out 48
Switching on
 NumLK 22
 PadLK 22
System configuration 49
System settings, BIOS Setup 49

T

Technical data 61
Time
 daylight savings 51
 not correct 51
Tips 51
Touchpad 13, 23
 cleaning 8
 dragging items 24
 executing commands 24
 moving the pointer 24
 scrolling 24
 selecting items 24
Touchpad buttons 13, 23
Transport 7
Travel preparations 7
Trouble, correction 51

Troubleshooting 51
TV set, connecting 48

U

Underside, view 15
USB devices
 connecting 47
 software 47
USB port 15, 45, 47

V

VGA port, see monitor port
Video units, connecting 48
View
 front 14
 left-hand side 14
 open notebook 13
 rear 15
 right-hand side 14
 underside 15

W

Windows logo keys 19
Windows XP 29
Wireless LAN, ON/OFF switch 13
Write protection, floppy disk 35